**Geometry Practice**

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Geometry

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**Please DO NOT write on this sheet**

**Do you know…**

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| **Foundations of Geometry?** | Draw the following on graph paper:   * Plane F * Line *h* lying on plane F * Three collinear points on line *h*: A, B, C * One non-collinear point J on plane F * One point S that is non-coplanar to plane F |  |
| **Line Segments?** | 47 | 5. Find x.  6. Find *YZ.* |
| **Distance and Absolute Value?** | Use the number line below to answer the questions that follow.  7. Using absolute value, what is the distance between AE?  8. Using absolute value, what is the distance between AC?  9. How much longer is AE than AC? | |
| **Absolute Value Word Problems** | 10. What is the distance between 6 and −6? between 24 and 17? between 17 and 24? between t and 4? The distance between two points is always positive.   1. If a and b are two points on a number line, the distance is therefore either a − b or b − a, whichever is nonnegative. This is an example of an absolute-value calculation, and the result is written |a − b|. What is the meaning of |b − a|? 2. Write a formula that expresses the distance between p and 17. Describe all the possible values for p if this distance is to be greater than 29. | |
| **Distance & Measurement** | 1. How many tick marks are there in every inch?  1. What is the smallest measurement we can make using inches and the ruler above? 2. What is the measurement indicated in the ruler above?  1. What is the measurement indicated in the ruler above? | |

**Multiple Choice**

*On your graph paper, copy the diagram and the true statement. You do not need to copy the question. For word problems, simply write the problem in algebraic form.*

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| 1) Which statement about the figure is true?  A. Lines *x* and *y* intersect at point *A*  B. Points A, B and C are collinear  C. Another name for line *x* is  D. Another name for  is  E. Another name for line *y* is line *B* | 2) What is the length of ?  A. 3  B. 12  C. 24  D. 25  E. 114 |
| **4)** On a number line, point *X* is located at 4, *Y* is located at –3, and *Z* is located at –11. How much longer is *XZ* than *YZ*?  A. 7  B. 8  C. 11  D. 14  E. 15 1.4 GRE402 | 5) On a particular line segment, points A, B, and C are collinear, and B is between A and C. If  AB = 15 and BC = 9, what is the measure of AC?  A. 6  B. 9  C. 15  D. 24  E. None of the above 1.3 GC/GRE402 |
| 6) Name a set of three points that are *not* coplanar.  A. *H, J* and *I*  B. *H, G,* and *J*  C*. H , G* and *I*  D. *G, J* and *I*  E. *G*, *F* and *I* 1.1 GC | 7) What is the length of *XY*?  32  X Y 6 Z  A. 6  B. 26  C. 32  D. 38  E. None of the above 1.3 GC/GRE402 |
| 9) Use a ruler to measure the length of the segment to the nearest tenth of a centimeter.  A. 1.8  B. 2.0  C. 4.5  D. 4.7  E. 4.9 1.2 GC/GRE402 | 12) Which of the following points are on plane *P*?  A. *H, F,* and *A*  B. *F, D,* and *G*  C. *C, D,* and *E*  D. *I, G,* and *B*  E. None of the above |
| 15) If *AC* = 35, what is the value of AM?  x + 5 2x  A M C  A. 10  B. 15  C. 20  D. 35  E. None of the above 1.3 GC/GRE402 | 16) What is the distance between points *X* and *Y*?  Z Y W X  -13 -11 0 6  A. 5  B. 6  C. 17  D. 19  E. None of the above 1.4 GRE402 |